

LG Chemical LUCON CP2100-KA02 PC+CF

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Carbon Fiber Reinforced

Material Notes:

Description Injection Molding Grade, PC+CF, Electrostatic Dissipation, Low Surface Resistance Application: LCD Tray, HDD Bracket CAS No. 103598-77-2 and 7440-44-0 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-CP2100-KA02-PCCF.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	108 MPa	15600 psi	50mm/min; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Elongation at Break	>= 3.0 %	>= 3.0 %	50mm/min; ASTM D638
	@Thickness 3.20 mm	@Thickness 0.126 in	
Flexural Yield Strength	147 MPa	21300 psi	15mm/min; ASTM D790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flexural Modulus	6.67 GPa	967 ksi	15mm/min; ASTM D790
	@Thickness 6.40 mm	@Thickness 0.252 in	
Izod Impact, Notched	0.588 J/cm	1.10 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	139 Â°C	282 Â°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	80.0 Â°C	176 Â°F	

UL RTI Mechanical without Impact Thermal Properties	Metric @Thickness >=3.00 mm	English @Thickness >=0.118 in	Comments
Flammability, UL94	V-1 @Thickness >=3.00 mm	V-1 @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 - 1.00e+9 ohm	10000 - 1.00e+9 ohm	IEC 60093

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	280 - 290 Â°C	536 - 554 Â°F	Injection Molding
Middle Barrel Temperature	290 - 300 Â°C	554 - 572 Â°F	Injection Molding
Front Barrel Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Nozzle Temperature	280 - 300 Â°C	536 - 572 Â°F	Injection Molding
Melt Temperature	290 - 310 Â°C	554 - 590 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	5.00 - 7.00 hour	5.00 - 7.00 hour	Injection Molding
Back Pressure	<= 1.96 MPa	<= 284 psi	Injection Molding
Screw Speed	<= 100 rpm	<= 100 rpm	Injection Molding

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